

USCMS Engineer Status Report for August 2003

Rick Wilkinson

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1 Work Performed This Month

I took my two weeks vacation the last two weeks of August. Before that, I was at Rice University for a week working on Slice Test DAQ. Ichiro Suzuki and Jeremy Mans came to help, along with the Rice guys (Alex Tumanov & Frank Geurts) and some Florida students (Bobby Scurlock & Lindsey Graham). We set the basis for a combined DAQ between the HCAL, EMU chambers, and EMU trigger trackfinder.

Before the meeting, I worked on Calo core software. I factored the zero-suppression code for DataFrames and RecHits into their own classes. That saved a lot of duplicate code, and should make it possible to reconstruct crystals and towers one-by-one.

I started to construct a class for ECAL supercrystals, with the intention of making them the basic readout unit of the ECAL, instead of the crystal, but Teddy talked me out of that at the Calo software meeting.

2 Status of Deliverables

In Slice Test DAQ, I still need to add Data Quality Monitoring to our new Event Builder.

For Calorimetry, coordinating the release will be scary, because some changes will cause incompatibility with existing DC04 datasets. Using realistically grouped readouts will cause problems, and while we're causing

problems, we might as well give readouts less cryptic names, like everyone else does now, e.g., "CaloHitsEcalBarrel01", rather than "CHEBRY01".

The Calo/CommonDet upgrades are in place for HCAL. Tracking layers aren't included yet. RecHits aren't either, but I'm not sure if they mean the same thing that RecHits mean in Tracking. I'll have to talk to people.

3 Plans For Next Month

Do Data Quality monitoring for EMU Help with the final CommonDet-ization of ECAL

4 Longer Term Plans

Help with calibration, with Calo and maybe (if time permits) with EMU